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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/689,218	10/11/2000	Thomas E. Giles	082225.P4249	7966	
. 75	7590 10/07/2004		EXAMINER		
Michael A DeSanctis			LIN, KENNY S		
	Blakely Sokoloff Taylor & Zafman LLP  12400 Wilshire Boulevard  ART UNIT PART UNIT PAR			PAPER NUMBER	
7th Floor			2154		
Los Angeles, C	CA 90025	•	DATE MAILED: 10/07/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	1
	09/689,218	GILES ET AL.	
Office Action Summary	Examiner	Art Unit	1-1
	Kenny Lin	2154	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence addres	·s
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICAT!  - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic  - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory p  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a son. a reply within the statutory minimum of thin beriod will apply and will expire SIX (6) MON statute, cause the application to become Al	reply be timely filed  ty (30) days will be considered timely.  VTHS from the mailing date of this commu- BANDONED (35 U.S.C. § 133).	nication.
Status			
1) Responsive to communication(s) filed on	<u>12 July 2004</u> .		
2a)⊠ This action is <b>FINAL</b> . 2b)□	This action is non-final.	,	
3) Since this application is in condition for all closed in accordance with the practice un			rits is
Disposition of Claims			
4) ☐ Claim(s) 1-12 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-12 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction as	hdrawn from consideration.		
Application Papers			
9) The specification is objected to by the Exa	ıminer.		
10) The drawing(s) filed on is/are: a)		by the Examiner.	
Applicant may not request that any objection t			
Replacement drawing sheet(s) including the c			
Priority under 35 U.S.C. § 119		:	
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of:  1. Certified copies of the priority documents.  2. Certified copies of the priority documents.  3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for	ments have been received. ments have been received in A priority documents have beer ureau (PCT Rule 17.2(a)).	Application No  received in this National Stag	ge
Attachment(s)	•		
Attachment(s)  1) Notice of References Cited (PTO-892)	4) 🗍 Interview	Summary (PTO-413)	
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-94</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date</li> </ul>	8) Paper No	s)/Mail Date Informal Patent Application (PTO-152	2)

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#### **DETAILED ACTION**

1. Claims 1-20 are presented for examination.

## Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 3. Claims 2 and 4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
  - a. The following terms lack proper antecedence basis:
    - i. A server node card Claim 2, line 1 (server node cards were introduced in claim 1, line 3).

### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002

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do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 5. Claims 1-8 are rejected under 35 U.S.C. 102(e) as being anticipated by Hipp et al (hereinafter Hipp), US 6,411,506.
- 6. As per claim 1, Hipp taught the invention as claimed including an apparatus comprising:
  - a. A card rack (fig. 13, col. 7, lines 57-62);
  - b. two or more server node cards, each server node can perform server functions with integrated switch and router functions including load balancing and fail-over (col.2, lines 16-22, col.3, lines 63-67, col.4, lines 1-6, col.7, lines 10-22, 51-62, col.8, lines 26-29); and
  - c. A plurality of ports coupled with the two or more server node cards (col.8, lines 50-56, col.9, lines 62-67, col.10, lines 1-6, col.11, lines 1-12).
- 7. As per claim 5, Hipp taught the invention as claimed including a server block comprising:
  - a. A plurality of server nodes, each server node comprising a server with integrated switching, routing, load balancing and fail-over functions and a plurality of ports, at least one port of the plurality of ports configured for connection to an external

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network (col.2, lines 16-22, col.3, lines 63-67, col.4, lines 1-6, col.7, lines 10-22, col.8, lines 26-29, 50-56, col.9, lines 62-67, col.10, lines 1-6, col.11, lines 1-12); and

- b. A plurality of signal paths connected with the plurality of ports of the server nodes of the plurality of the server nodes (col.3, lines 62-64, 66-67, col.4, line 1), at least two of the plurality of ports of each server node of the plurality of server nodes connected with another server node of the plurality of server nodes in the server block (col.2, lines 23-31, col.4, lines 34-58).
- 8. As per claim 2 and 6, Hipp taught the invention as claimed in claims 1 and 5. Hipp further taught wherein each server node of the plurality of server nodes comprises one single printed circuit board (col.8, lines 1-10, col.10, lines 54-59, col.11, lines 13-15).
- 9. As per claim 3, Hipp taught the invention as claimed in claim 1. Hipp further taught that where the plurality of ports comprises four ports (col.9, lines 27-34, col.11, lines 13-23).
- 10. As per claims 4 and 7, Hipp taught the invention as claimed in claims 2 and 6. Hipp further taught wherein the printed circuit board is rack mountable and the plurality of ports of each server node of the plurality of server nodes are accessible as connection points on the card rack and the server block is constructed in one card rack by interconnecting the connection points on the card rack (col.3, lines 56-61, col.7, lines 52-62, col.18, lines 16-21, fig.13).

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11. As per claim 8, Hipp taught the invention substantially as claimed in claim 7. Hipp further taught wherein the external connections of the plurality of server block are provided through an interface card in the card rack, the interface card being connected to the plurality of server nodes through connection points on the card rack (col.2, lines 23-31, col.3, lines 62-67, col.4, line 1, col.11, lines 64-67, col.12, lines 1-5, col.18, lines 16-21).

## Claim Rejections - 35 USC § 103

- 12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 13. Claims 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hipp et al (hereinafter Hipp), US 6,411,506.
- 14. As per claim 9, Hipp taught the invention substantially as claimed including a computer network comprising:
  - a. A plurality of server blocks wherein each server block (fig.13) comprises:
    - i. A plurality of server nodes, each server node comprising a server with integrated switching, routing, load balancing and fail-over functions and a plurality of ports (col.2, lines 16-22, col.3, lines 63-67, col.4, lines 1-6,

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col.7, lines 10-22, col.8, lines 50-56, col.9, lines 62-67, col.10, lines 1-6, col.11, lines 1-12), and

- ii. A plurality of signal paths connected with the plurality of ports of each server node of the plurality of server nodes (col.3, lines 62-64, 66-67, col.4, line 1), at least one signal path connected with each server node of the plurality of server nodes providing an external connection to a server block (col.14, 17-22, 25-29, 32-34), and at least two signal paths of the plurality of signal paths connected with each server node of the plurality of server nodes being connected with other server nodes of the plurality of server nodes in the block (col.2, lines 23-31, col.4, lines 34-58); and
- b. A plurality of signal paths connected with the server blocks (col. 18, lines 16-21).
- 15. Hipp further taught to provide connector paths in the backplate of the server rack intended to facilitate daisy chaining of server blocks within server rack (col.18, lines 16-21). Hipp did not specifically teach to include at least one signal paths connected with each server block of the plurality of server blocks providing an external connection to the network, and at least two signal paths of the plurality of signal paths connected with each server block of the plurality of server blocks being connected with other server blocks of the plurality of server blocks. However, since Hipp taught to include a plurality of signal paths connected with the server blocks (col.18, lines 16-21), and at least two signal paths of the plurality of signal paths connected with each server node of the plurality of server nodes being connected with other server nodes of the plurality of server nodes in the block (col.2, lines 23-31, col.4, lines 34-58), it

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would have been obvious to dedicate signal paths that are connected to the server blocks as an external connection to the network or for chaining of server blocks. It would have been obvious to one of ordinary skill in the art at the time the invention was made to dedicate a certain signal paths in Hipp's system for external network connection and server blocks chaining facilitation purpose to provide communications in between the server blocks mounted on the same server rack (col.18, lines 16-21)

- 16. As per claim 10, Hipp taught the invention substantially as claimed in claim 9. Hipp further taught wherein each server node of the plurality of server nodes comprises one printed circuit board (col.8, lines 1-10, col.10, lines 54-59, col.11, lines 13-15).
- 17. As per claim 11, Hipp taught the invention substantially as claimed in claim 10. Hipp further taught wherein the printed circuit board is rack mountable and the plurality of ports of each server node of the plurality of server nodes are accessible as connection points on the card rack and a server block is constructed in one card rack by interconnecting the connection points on the card rack (col.3, lines 56-61, col.7, lines 52-62, col.18, lines 16-21, fig.13).
- 18. As per claim 12, Hipp taught the invention substantially as claimed in claim 11. Hipp further taught wherein the external connections of the plurality of server block are provided through an interface card in the card rack, the interface card being connected to the plurality of server nodes through connection points on the card rack (col.2, lines 23-31, col.3, lines 62-67, col.4, line 1, col.11, lines 64-67, col.12, lines 1-5, col.18, lines 16-21).

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### Response to Arguments

- 19. Applicant's arguments filed 7/12/2004 have been fully considered but they are not persuasive.
- 20. In the remark, applicant argued that (1), Hipp does not disclose a server node card with integrated switch and router function.
- 21. Examiner traverse the argument that:

Examiner would first like to clearly identify that "a server card with integrated switching and routing function" is differing from "a server card with integrated switching and routing components" to prevent future disagreement. Nowhere in the specification discloses or suggests the server card to be integrated with switching and routing components.

As to point (1), switching and routing functions are inherent and essential functions in Hipp's system in order to carry out the invention. Hipp taught a server card (col.1, lines 25-28) to connect with two separate networks, a public network (col.3, lines 66-67, col.4, lines 1-6, 59-60) and a private network (col.4, lines 11-13, col.5, lines 22-31). In order for the server node to transmit requested data to the desiring network, the server node must switch between the public network and the private network and route the requested data to the correct destination network or at least route the requested data to the correct switch of the destination network (either switch 42 or 50). Hipp further suggested using switch chip in the interface card (col.12, lines 25-43, 50-

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59). Hence, switching and routing functions are inherent features necessary and suggested in Hipp's teaching.

#### Conclusion

22. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Conway, US 6,665,822.

Dellacona, US 6,260,155.

Wachel, US 6,675,254.

23. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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24. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenny Lin whose telephone number is (703) 305-0438 and will be (571) 272-3968 after October 18, 2004. The examiner can normally be reached on 8 AM to 5 PM Tue.-Fri. and every other Monday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (703) 305-8498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ksl

October 4, 2004

Won: Ja-Lo 10/4/04